

**EAST Search History****EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	394	74/604.ccls.	USPAT	OR	OFF	2011/03/07 08:53
L2	2	("crank web" "crankpin") and crankshaft and balancer and (balance near10 ratio) and (radius rotational)	USPAT	OR	OFF	2011/03/07 09:10
L8	1	"57069137"	US-PGPUB; USPAT; JPO; DERWENT	OR	OFF	2011/03/07 09:25
L9	3	("crank web" "crankpin") and crankshaft and balancer and (balance near10 ratio) and (radius rotational)	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/03/07 09:28
L10	3	("crank web" "crankpin") and crankshaft and balancer and ((balance near10 ratio) or (balance near10 factor)) and (radius rotational distance moment)	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/03/07 09:47
L11	1	"crank web" and balancer and ((balance near10 ratio) or (balance near10 factor)) and (radius rotational distance moment)	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/03/07 09:48

L12	1	"crank web" and balancer and ((balance near10 ratio) or (balance near10 factor))	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/03/07 09:48
L13	5	"crank web" and balance and ((balance near10 ratio) or (balance near10 factor))	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/03/07 09:48
L14	5	"crank web" and ((balance near10 ratio) or (balance near10 factor))	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/03/07 09:48
L16	1	"crank web" and ((weight near10 "rotational radius"))	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/03/07 10:09
L17	10	"crank web" and (weight near10 "radius")	US-PGPUB; USPAT; DERWENT	OR	OFF	2011/03/07 10:09
S1	2824	"74".ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/02 15:23
S2	15	S1 and (crank near20 web)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/02 15:24
S4	617	123/192.2.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/02 15:25
S5	403	123/192.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/02 15:35
S6	38	123/74ae.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/02 15:41
S7	1048	123/572.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/02 15:42
S8	146	crank and web and balancer and cylinder and half	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/02 15:53
S9	614	crank and web and balance\$1 and cylinder and half	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/02 15:55

S10	233	(crank near20 web) and balanc \$2 and cylinder and half	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/02 15:55
S11	1785	123/90.31.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 08:38
S13	564	123/197.4.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 09:01
S14	377	123/195p.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 09:08
S15	459	123/41.7.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 09:11
S17	74	(half with crank with web)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:17
S18	4	(half with crank with web) and (balance near200 ratio)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:18
S19	0	(balance with ratio) and (moment same mass same distance same (radius rotation \$3)) and (crank crankshaft "crank shaft") and balancer and cylinder	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:22
S20	1	(balance with ratio) and (moment same mass same (radius rotation \$3)) and (crank crankshaft "crank shaft") and balancer and cylinder	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:23

S21	9	ratio and (moment same mass same (radius rotation \$3)) and (crank crankshaft "crank shaft") and balancer and cylinder	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:23
S22	0	ratio and (moment same mass same (radius rotation \$3)) and (crank crankshaft "crank shaft") and balancer and cylinder and unbalance	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:27
S23	2	ratio and (moment same mass same (radius rotation \$3)) and (crank crankshaft "crank shaft") and balancer and cylinder and unbalance	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:27
S24	3	(crank crankshaft "crank shaft") and (balancer same balance same ratio) and cylinder and unbalance	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:28
S25	22	(crank crankshaft "crank shaft") and (balancer same balance same ratio) and cylinder	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:29
S27	123	74/572.1.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:33
S28	8	S27 and crankshaft	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:33

S29	1110	balance same ratio and crankshaft	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:46
S30	508	balance with ratio and crankshaft	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:46
S31	452	balance near20 ratio and crankshaft	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:46
S32	331	balance near20 ratio and crankshaft and cylinder	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:46
S33	166	(balance near5 ratio) and crankshaft and cylinder	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:46
S34	9	(balance near5 ratio) and crankshaft and cylinder and balancer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:47
S35	162	("half crank web" or "half crank" or "crank web") and crankshaft and cylinder and balancer	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:50
S36	652	74/603.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 10:53
S37	31	S36 and (balance \$1 same ratio)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2011/03/03 13:25

3/7/2011 10:16:42 AM

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